

ABSTRACT:

To be realized the well-lighted display by using the whole pixels in the reflective mode and the transmissive mode. In a reflective mode, an optical element 13 is used as liquid crystal display element. That is, the optical element 13 operates as liquid crystal display element by applying the voltage. In this case, the optical element 13 reflects the external light since the optical element 13 is a scattering state with regard to non-applying pixel (arrow B). In a transmissive mode, a liquid crystal panel 12 is used as liquid crystal display element. That is, the liquid crystal panel 12 operates as liquid crystal display element by applying the voltage. In this case, the optical element 13 passes light from a backlight 11 since the optical element 13 is a transmissive state (arrow A). And the optical element 13 plays a color filter part and does not operates as display element. (See Fig. 1)